IEEE P802.1Qat SRP (MSRP) Talker Advertise packet format
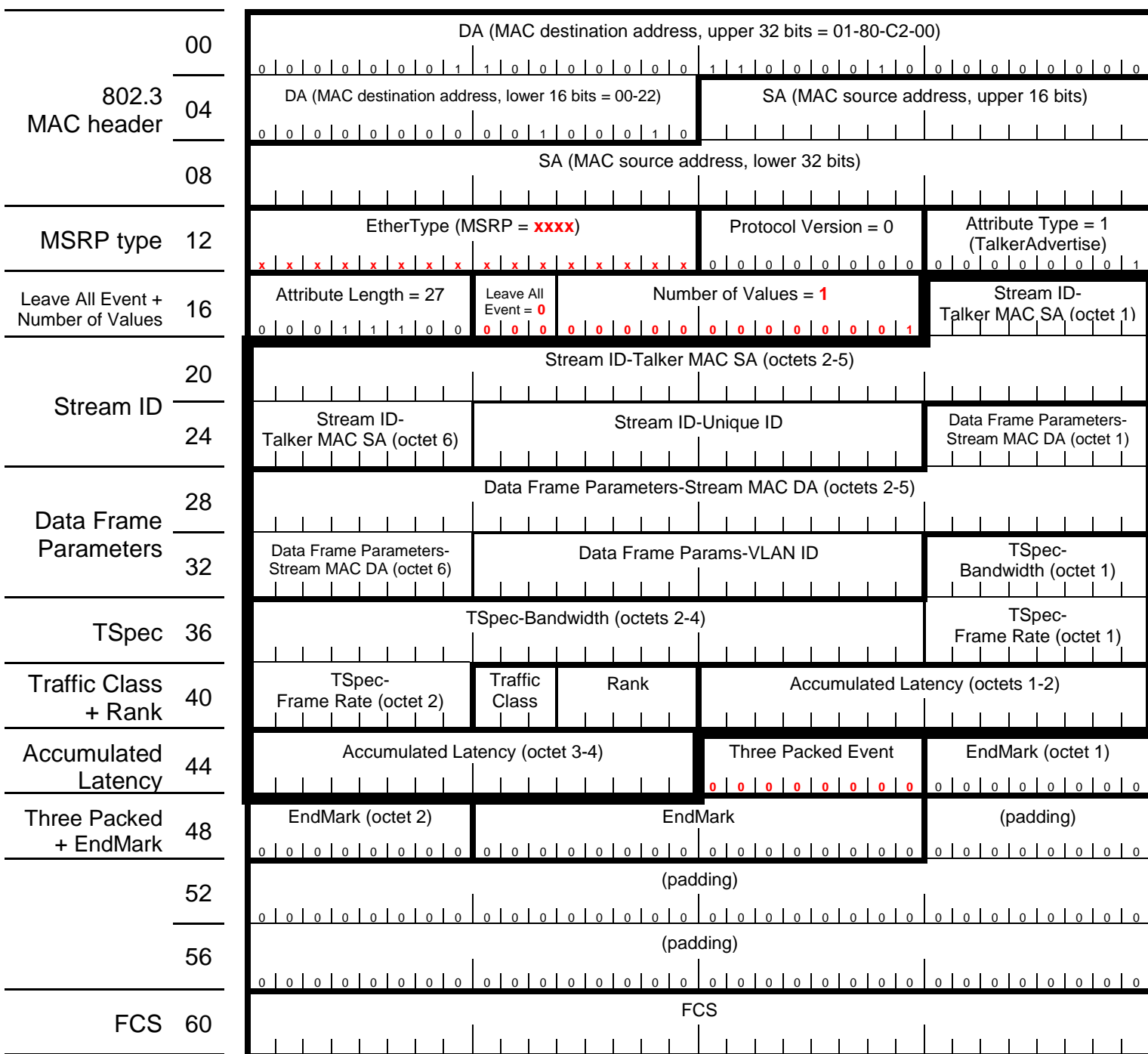## (Format designed at Seoul Interim – September 2008)

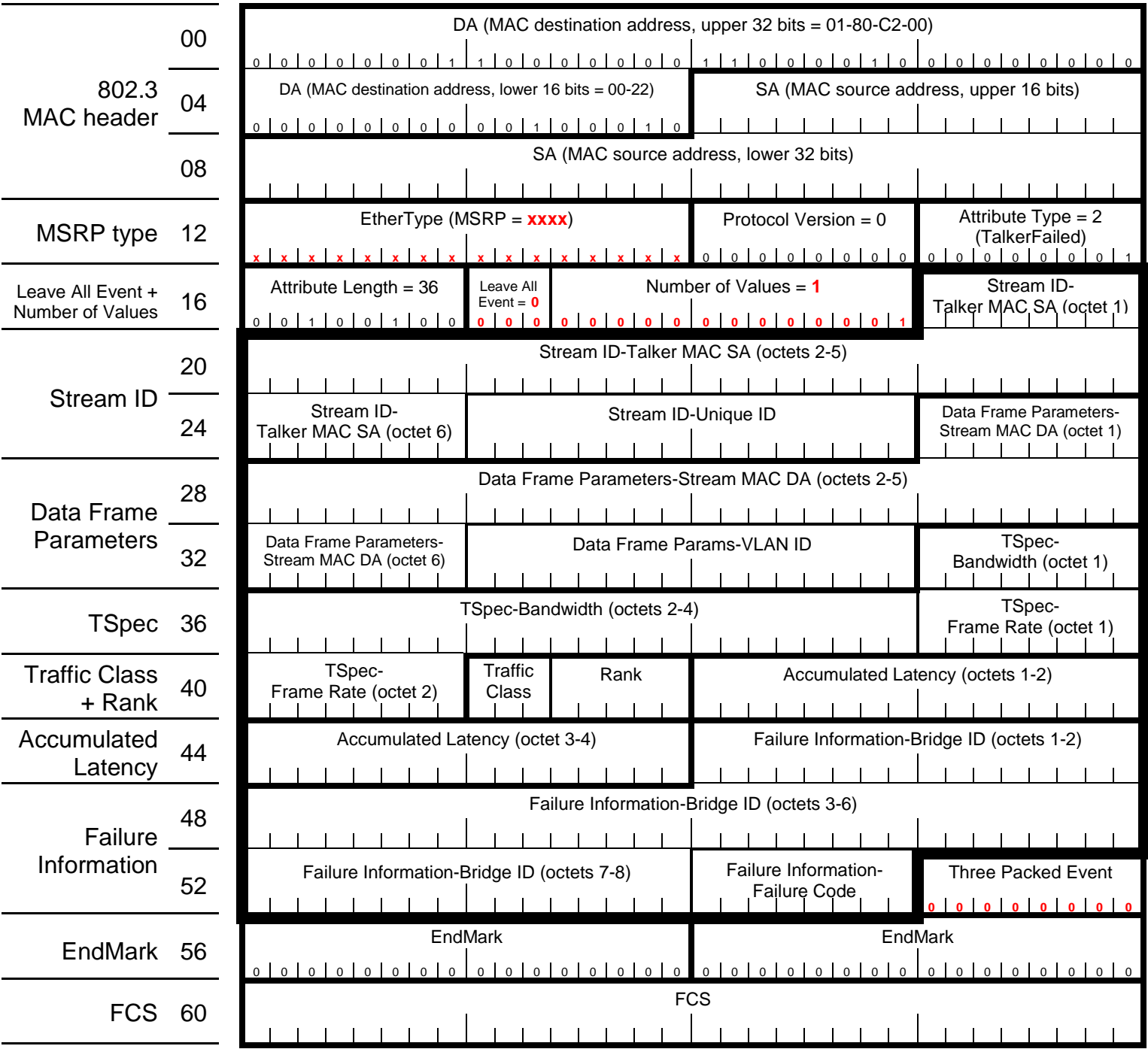| Section	Offset	Field
802.3 MAC header	00	DA (MAC destination address, upper 32 bits = 01-80-C2-00)
		0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0 0 0
	04	DA (MAC destination address, lower 16 bits = 00-22) — SA (MAC source address, upper 16 bits)
		0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
	08	SA (MAC source address, lower 32 bits)
MSRP type	12	EtherType (MSRP = **xxxx**) — Protocol Version = 0 — Attribute Type = 1 (TalkerAdvertise)
		x x x x x x x x x x x x x x x x — 0 0 0 0 0 0 0 0 0 0 — 0 0 0 0 0 0 0 1
Leave All Event + Number of Values	16	Attribute Length = 27 — Leave All Event = **0** — Number of Values = **1** — Stream ID-Talker MAC SA (octet 1)
		0 0 0 1 1 1 1 0 0 — **0 0 0** **0 0 0 0 0 0 0 0 0 0 0 0 1**
Stream ID	20	Stream ID-Talker MAC SA (octets 2-5)
	24	Stream ID-Talker MAC SA (octet 6) — Stream ID-Unique ID — Data Frame Parameters-Stream MAC DA (octet 1)
Data Frame Parameters	28	Data Frame Parameters-Stream MAC DA (octets 2-5)
	32	Data Frame Parameters-Stream MAC DA (octet 6) — Data Frame Params-VLAN ID — TSpec-Bandwidth (octet 1)
TSpec	36	TSpec-Bandwidth (octets 2-4) — TSpec-Frame Rate (octet 1)
Traffic Class + Rank	40	TSpec-Frame Rate (octet 2) — Traffic Class — Rank — Accumulated Latency (octets 1-2)
Accumulated Latency	44	Accumulated Latency (octet 3-4) — Three Packed Event — EndMark (octet 1)
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Three Packed + EndMark	48	EndMark (octet 2) — EndMark — (padding)
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	52	(padding)
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	56	(padding)
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FCS	60	FCS

Note 1: The MRP "FirstValue" field is shown in octets 19 through 45, which is indicated by a darker outline.

Note 2: MRP based protocols make no effort to align 32-bit fields on 32-bit boundaries, or 16-bit fields on 16-bit boundaries. In fact, the layout of the first 25 bytes in an MSRP packet looks identical to an MMRP packet (although the content is definitely different).

Note 3: A valid EtherType will be assigned at a future date.

IEEE P802.1Qat SRP (MSRP) Talker Failed packet format
(Format designed at Seoul Interim – September 2008)

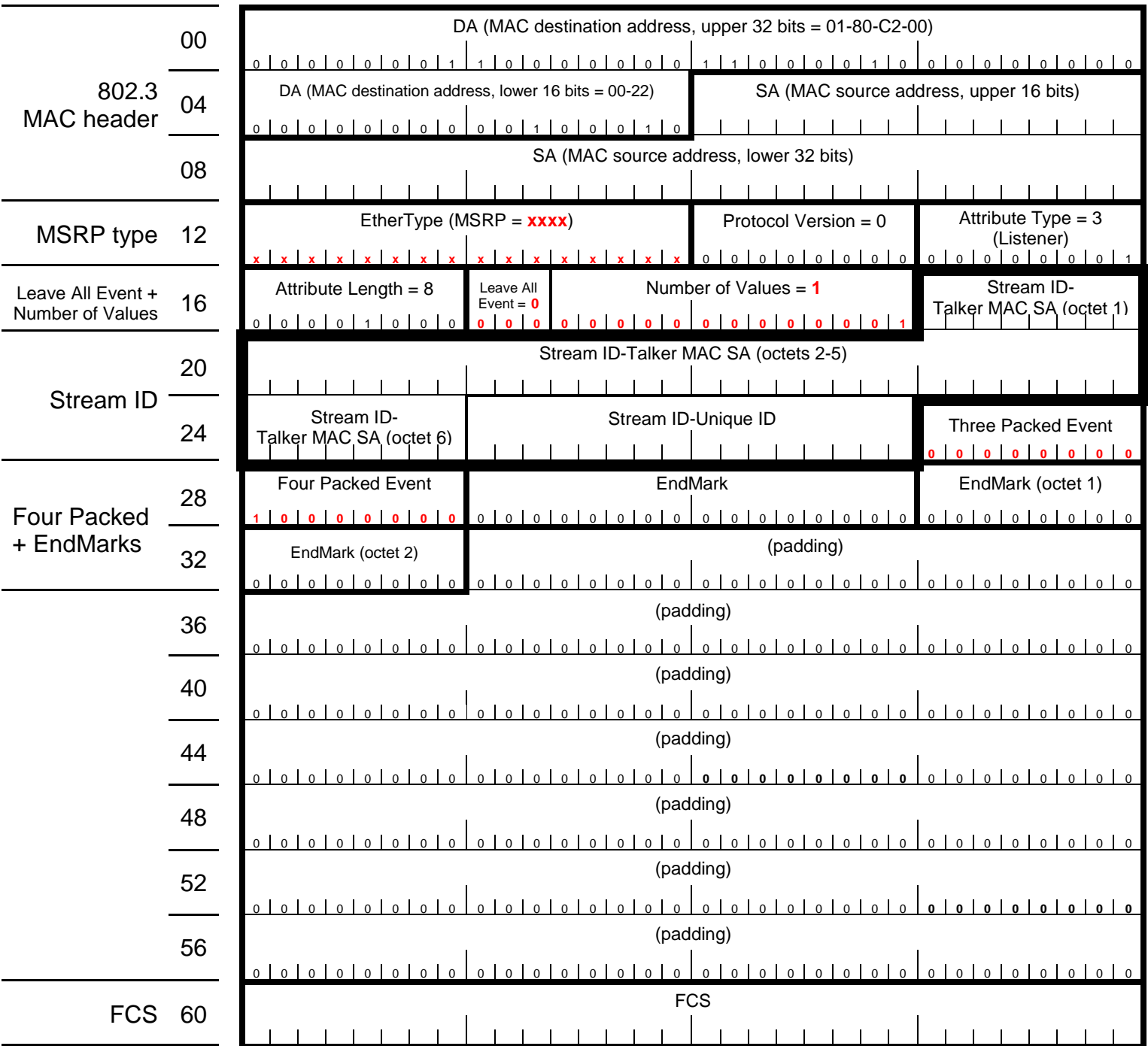| Section	Octet	Field content
802.3 MAC header	00	DA (MAC destination address, upper 32 bits = 01-80-C2-00) 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0
	04	DA (MAC destination address, lower 16 bits = 00-22) / SA (MAC source address, upper 16 bits) 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
	08	SA (MAC source address, lower 32 bits)
MSRP type	12	EtherType (MSRP = **xxxx**) / Protocol Version = 0 / Attribute Type = 2 (TalkerFailed) x x x x x x x x x x x x x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 0 ... 0 0 0 0 0 0 0 1
Leave All Event + Number of Values	16	Attribute Length = 36 / Leave All Event = **0** / Number of Values = **1** / Stream ID-Talker MAC SA (octet 1) 0 0 1 0 0 1 0 0 **0 0 0** 0 0 0 0 0 0 0 0 0 0 0 0 1
Stream ID	20	Stream ID-Talker MAC SA (octets 2-5)
	24	Stream ID-Talker MAC SA (octet 6) / Stream ID-Unique ID / Data Frame Parameters-Stream MAC DA (octet 1)
Data Frame Parameters	28	Data Frame Parameters-Stream MAC DA (octets 2-5)
	32	Data Frame Parameters-Stream MAC DA (octet 6) / Data Frame Params-VLAN ID / TSpec-Bandwidth (octet 1)
TSpec	36	TSpec-Bandwidth (octets 2-4) / TSpec-Frame Rate (octet 1)
Traffic Class + Rank	40	TSpec-Frame Rate (octet 2) / Traffic Class / Rank / Accumulated Latency (octets 1-2)
Accumulated Latency	44	Accumulated Latency (octet 3-4) / Failure Information-Bridge ID (octets 1-2)
Failure Information	48	Failure Information-Bridge ID (octets 3-6)
	52	Failure Information-Bridge ID (octets 7-8) / Failure Information-Failure Code / Three Packed Event **0 0 0 0 0 0 0 0**
EndMark	56	EndMark / EndMark 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FCS	60	FCS

Note 1: The MRP "FirstValue" field is shown in octets 19 through 54, which is indicated by a darker outline.

Note 2: MRP based protocols make no effort to align 32-bit fields on 32-bit boundaries, or 16-bit fields on 16-bit boundaries. In fact, the layout of the first 25-bytes in an MSRP packet looks identical to an MMRP packet (although the content is definitely different).

Note 3: A valid EtherType will be assigned at a future date.

IEEE P802.1Qat SRP (MSRP) Listener packet format
(Format designed at Seoul Interim – September 2008)

Section	Offset	Fields
802.3 MAC header	00	DA (MAC destination address, upper 32 bits = 01-80-C2-00) 0 0 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0
	04	DA (MAC destination address, lower 16 bits = 00-22) / SA (MAC source address, upper 16 bits) 0 0 0 0 0 0 0 0 0 0 0 0 1 0 0 0 1 0
	08	SA (MAC source address, lower 32 bits)
MSRP type	12	EtherType (MSRP = **xxxx**) / Protocol Version = 0 / Attribute Type = 3 (Listener) x x x x x x x x x x x x x x x x 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1
Leave All Event + Number of Values	16	Attribute Length = 8 / Leave All Event = **0** / Number of Values = **1** / Stream ID-Talker MAC SA (octet 1) 0 0 0 0 1 0 0 0 **0 0 0** **0 0 0 0 0 0 0 0 0 0 0 1**
Stream ID	20	Stream ID-Talker MAC SA (octets 2-5)
	24	Stream ID-Talker MAC SA (octet 6) / Stream ID-Unique ID / Three Packed Event **0 0 0 0 0 0 0 0**
Four Packed + EndMarks	28	Four Packed Event / EndMark / EndMark (octet 1) **1 0 0 0 0 0 0 0** 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	32	EndMark (octet 2) / (padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	36	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	40	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	44	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	48	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	52	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	56	(padding) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
FCS	60	FCS

Note 1: The MRP "FirstValue" field is shown in octets 19 through 26, which is indicated by a darker outline.

Note 2: MRP based protocols make no effort to align 32-bit fields on 32-bit boundaries, or 16-bit fields on 16-bit boundaries. In fact, the layout of the first 25-bytes in an MSRP packet looks identical to an MMRP packet (although the content is definitely different).

Note 3: A valid EtherType will be assigned at a future date.

Note 4: The Four Packed Event is encoded with a value of 2 (Listener Ready) in the first attribute position.